AMENDMENTS TO THE CLAIMS

1. (Currently Amended): A method of modulating at least one photosensitive traitflowering time in a plant comprising

altering the level of PHYTOCHROME AND FLOWERING TIME 1 (PFT1) protein in a plant,

wherein the amino acid sequence of said PFT1 protein is encoded by a nucleotide sequence hybridizing to set forth in SEQ ID NO: 23 under very high stringent wash conditions comprising at least one wash at 0.1x SSC, 0.1% SDS, at 60°C for 15 minutes, or has an amino acid sequence at least 45% identical to SEQ ID NO: 3.

- 2. (Cancelled).
- 3. (Currently Amended): The method of claim 1, wherein said PFT1 protein has the amino acidis encoded by the nucleotide sequence set forth in SEQ ID NO. 3-2or conservative variants thereof.
- 4. (Currently Amended): The method of claim 1, wherein the level of PFT1 protein is altered by producing transforming a plant having with an expression vector having comprising a gene encoding the PFT1 protein.
- 5. (Currently Amended): The method of claim 4, wherein the gene encoding the PFT1 protein has a nucleotide sequence that encodes the amino acid sequence set forth in SEQ ID NO. 3-or conservative variants thereof.
- 6. (Original): The method of claim 4, wherein the gene encoding the PFT1 protein has the nucleotide sequence set forth in SEQ ID NO. 2.
- 7. (Currently Amended): A method of modulating a photosensitive traitflowering time in a plant, comprising:

transforming a plant cell with an expression vector comprising a gene that encodes a PFT1 protein,

wherein the amino acid sequence of said PFT1 protein is encoded by a nucleotide sequence hybridizing to set forth in SEQ ID NO: 23 under very high stringent wash conditions comprising at least one wash at 0.1x SSC, 0.1% SDS, at 60°C for 15 minutes, or has an amino acid sequence at least 45% identical to SEQ ID NO: 3; and

growing said plant cell into a plant under conditions that allow the expression of the PFT1 protein thereby modulating a photosensitive traitflowering time.

- 8. (Original): The method of claim 7, wherein the PFT1 protein is overexpressed in said plant.
- 9. (Original): The method of claim 7, wherein the PFT1 protein is encoded by a gene comprising the nucleotide sequence shown in SEQ ID NO: 2.
- 10. (Currently Amended): The method of claim 7, wherein the expression vector comprises a promoter selected from the group <u>comprisingconsisting of</u> a constitutive promoter and an inducible promoter.
- 11. (Original): The method of claim 7, wherein the plant is selected from the group consisting of: wheat, barley, rye, oat, flax, millet, corn, tomato, rice and tobacco plants.
 - 12. (Cancelled).
- 13. (Currently Amended): A method of claim 127, wherein the photosensitive trait is flowering time, and said flowering time is decreased.
 - 14.- 22.(Cancelled):
- 23. (Currently Amended): A transgenic plant having at least one modulated photosensitive trait flowering time as compared to a wild-type plant,

wherein the transgenic plant comprises a recombinant expression vector that expresses a nucleic acid encoding a PFT1 gene,

wherein said PFT1 gene has a nucleotide sequence that hybridizes to SEQ ID NO: 2 under very high stringent wash conditions comprising at least one wash at 0.1x SSC, 0.1% SDS, at

60°C for 15 minutes, or has an amino acid sequence at least 45% identical to encodes the amino acid sequence set forth in SEO ID NO: 3.

- 24. (Original): The transgenic plant of claim 23, wherein the PFT1 gene is overexpressed.
 - 25. (Previously Presented): A recombinant nucleic acid comprising SEQ ID NO:2.
- 26. (Previously Presented): A recombinant nucleic acid comprising a nucleotide sequence encoding SEQ ID NO:3.
 - 27. 28. (Cancelled)
- 29. (Currently Amended): A transgenic plant comprising a recombinant expression vector that expresses the recombinant nucleic acid sequence of claims 25[[,]] or 26, or 27,.
- 30. (Original): The transgenic plant of claim 29, wherein the recombinant nucleic acid sequence is overexpressed.
- 31. (Previously Presented): The transgenic plant of claim 29, wherein the recombinant nucleic acid sequence is operably linked to a promoter.
- 32. (Currently Amended): The transgenic plant of claim 31, wherein the promoter is selected from the group eomprising consisting of a constitutive promoter and an inducible promoter.
- 33. (Original): The transgenic plant of claim 29, wherein the plant is selected from the group consisting of: wheat, barley, rye, oat, flax, millet, corn, tomato, rice and tobacco plants.
- 34. (Currently Amended): A seed comprising a recombinant expression vector that expresses the recombinant nucleic acid of claims 25[[,]]or 26, or 27,.
- 35. (Currently Amended): A plant tissue derived from the transgenic plant of claim 29, wherein the plant tissue comprises a recombinant expression vector that expresses a recombinant nucleic acid comprising a nucleotide sequence encoding SEQ ID NO: 3.

36. (Original):

The plant tissue of claim 35, wherein said tissue is a flower.

37. - 38. (Cancelled)

39. (New)

The method of claim 23, wherein the nucleotide sequence is

set forth in SEQ ID NO.2.

40. (New)

A plant tissue derived from the transgenic plant of claim 29,

wherein the plant tissue comprises a recombinant expression vector that expresses a recombinant

nucleic acid comprising SEQ ID NO: 2.